

CIN-354

Stephensen et al No. 4 Well

Duval District, Lincoln County, W. Va.

By South Penn Natural Gas Company, Parkersburg, W. Va.

Located 1.31 mi. W. of 81°55' and 4.89 mi. S. of 38°20' -SW- St. Albans Quadrangle.

Elevation, 1026.03'.

Permit, Lin-354.

Drilling commenced May 14, 1942; completed, July 18, 1942.

Shot July 29, 1942, depth 2510-2529'.

Shot Aug. 15, 1942, depth 2505-2529'.

Oil well, 17 bbls. per week from Berea.

Salt water, 1241', hole full.

8 1/2" casing, 359'; 6-5/8", 1383' (pulled 284'); 7", 805'; 2" tubing, 2520'.

Section based on samples from 1375 to 2531' examined by J. H. C. Martens.

Top	Bottom	Thickness	
<u>Pottsville Formation, 413+ feet</u>			
1375	1400	25	Sandstone, white with a little rusty stain, fine
1400	1416	16	Sandstone, white, medium-grained, nearly all quartz
1416	1439	23	Sandstone, white, coarse, nearly all quartz
1439	1595	156	Sandstone, white, medium-grained, nearly all quartz; many grains have crystal faces; slight increase in amount of rusty stain at 1439'
1595	1638	43	Sandstone, white, coarse, nearly all quartz
1638	1647	9	No sample
1647	1700	53	Sandstone, white, medium-grained, nearly all quartz
1700	1724	24	Sandstone, white, very coarse, pebbly
1724	1788	64	Sandstone, white, medium- to coarse-grained
<u>Mauch Chunk Group, 43 feet</u>			
1788	1795	7	Limestone, gray and brown, 30%; gray shale, 20%; white sandstone, 50%
1795	1826	31	Limestone, brown with some white and gray, fossiliferous
1826	1831	5	Shale, gray, soft (driller's "Pencil-shave"; only small amount shows in sample)

Top	Bottom	Thickness	
<u>Greenbrier Limestone, 191 feet</u>			
1831	1840	9	Limestone, nearly white, slightly sandy
1840	1889	49	Limestone, very light brown to nearly white
1889	1896	7	Limestone, very light brown, slightly sandy; contains some small and indistinct oolites
1896	1917	21	Limestone, white, slightly sandy, partly dolomitic (small amount of gas at 1906')
1917	1923	6	Limestone, white
1923	1941	18	Limestone, nearly white, sandy, dolomitic
1941	1963	22	Limestone, very light brown, sandy, oolitic
1963	1983	20	Limestone, nearly white, sandy, dolomitic
1983	1998	15	Limestone, nearly white, slightly dolomitic; contains some sand and oolites
1998	2008	10	Limestone, white, highly dolomitic, sandy
2008	2024	16	Dolomite, light-gray, sandy
<u>Poceno Formation, 502 feet</u>			
2024	2065	41	Sandstone, light-green with red specks, slightly to moderately dolomitic; fine to very fine except for a few coarse to very coarse grains
2065	2100	35	Shale, gray, silty
2100	2160	60	Siltstone and silty shale, gray
2160	2237	77	Siltstone, light-gray; most of it borders on sandstone in texture
2237	2397	160	Shale, gray
2397	2437	40	Shale, gray, 60 to 70%; light-brown, fine siltstone, 40 to 50%
2437	2447	10	Shale, gray
2447	2474	27	Shale, gray, 70%; light-brown, fine siltstone, 30%
2474	2507	33	Shale, very dark gray (Sunbury Shale)
2507	2514	7	Sandstone, white, medium-grained, slightly dolomitic (Berea Sandstone)
2514	2526	12	Sandstone, white, fine
<u>Devonian Shales, 5+ feet</u>			
2526	2531	5	Shale, gray, silty
	2531		Total depth